Note to readers with disabilities: *EHP* strives to ensure that all journal content is accessible to all readers. However, some figures and Supplemental Material published in *EHP* articles may not conform to 508 standards due to the complexity of the information being presented. If you need assistance accessing journal content, please contact ehponline@niehs.nih.gov. Our staff will work with you to assess and meet your accessibility needs within 3 working days.

Supplemental Material

Race/Ethnicity, Socioeconomic Status, Residential Segregation, and Spatial Variation in Noise Exposure in the Contiguous United States

Joan A. Casey, Rachel Morello-Frosch, Daniel J. Mennitt, Kurt Fristrup, Elizabeth L. Ogburn, and Peter James

Table of Contents

Table S1. Results of noise model cross-validation.	3
Table S2. Distribution of anthropogenic L_{50} nighttime, L_{50} daytime, and L_{10}	
daytime noise among suburban/rural residents by race/ethnicity and	
socioeconomic characteristics	4
Table S3. Anthropogenic L_{50} nighttime noise fitted values in urban and	
suburban/rural block groups by race/ethnicity and socioeconomic characteristics	6
Table S4. Degree of polynomial used to model the independent variable in each	
spatial error model	8
Table S5. Degree of polynomial used to model the independent variable in each	
spatial error model in the racial segregation analysis	9

Figure S1. Correlation matrix with LOESS lines for independent and dependent	
variables	10
Figure S2. Spatial distribution of (A) anthropogenic L_{50} daytime noise; (B)	
anthropogenic L_{10} daytime noise at the block group level in the continental United	
States	11
Figure S3. Race/ethnicity and socioeconomic characteristics and anthropogenic	
L_{50} daytime noise in (A) urban block groups (n = 175,373); and (B) suburban/rural	
block groups (n = 38,732)	12
Figure S4. Race/ethnicity and socioeconomic characteristics and anthropogenic	
L_{10} daytime noise in (A) urban block groups (n = 175,373); and (B) suburban/rural	
block groups (n = 38,732)	14
Figure S5. Weight/neighbor definition sensitivity analyses for race/ethnicity and	
socioeconomic characteristics and anthropogenic L ₅₀ nighttime noise in (A) urban	
block groups (n = $175,373$); and (B) suburban/rural block groups (n = $38,732$)	16
Figure S6. Race/ethnicity and anthropogenic L ₅₀ daytime noise in urban block	
groups (n = 175,373), stratified by multigroup racial/ethnic segregation	18
Figure S7. Race/ethnicity and anthropogenic L ₁₀ daytime noise in urban block	
groups (n = 175,373), stratified by multigroup racial/ethnic segregation	19
References	